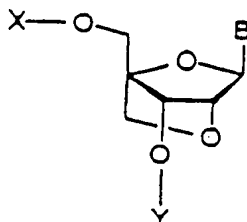


# CLAIMS

- Subst  
A5
1. A nucleoside analogue of the following general formula (I)

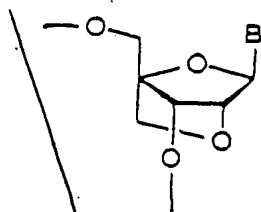


(I)

where B is a pyrimidine or purine nucleic acid base, or an analogue thereof, and X and Y are identical or different, and each represent a hydrogen atom, an alkyl group, an alkenyl group, an alkynyl group, a cycloalkyl group, an aralkyl group, an aryl group, an acyl group, or a silyl group,

or an amidite derivative thereof.

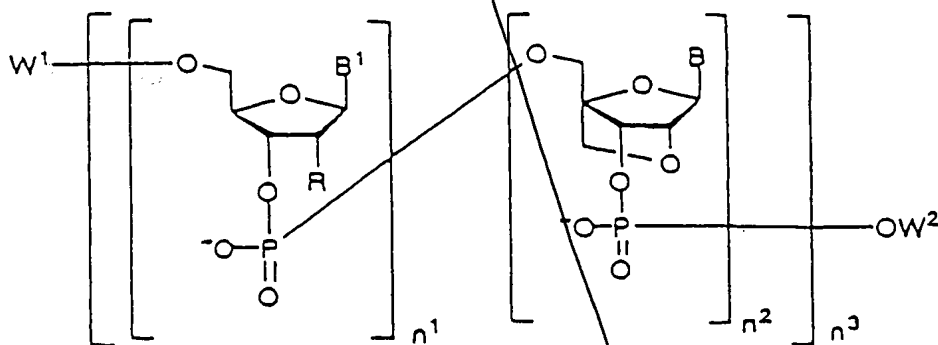
2. A nucleoside analogue as claimed in claim 1, wherein X and Y each represent a hydrogen atom.
3. A mononucleoside amidite derivative as claimed in claim 1, wherein X is 4,4-dimethoxytrityl (DMTr), and Y is a 2-cyanoethoxy(diisopropylamino)phosphino group (amidite group).
4. An oligonucleotide or polynucleotide analogue having one or more structures of the general formula (Ia)



(Ia)

where B is a pyrimidine or purine nucleic acid base, or an analogue thereof.

5. An oligonucleotide or polynucleotide analogue of the general formula (II)



(II)

where B<sup>1</sup> and B are identical or different, and each represent a pyrimidine or purine nucleic acid base, or an analogue thereof, R is a hydrogen atom, a hydroxyl group, a halogen atom, or an alkoxy group, W<sup>1</sup> and W<sup>2</sup> are identical or different, and each represent a hydrogen atom, an alkyl group, an alkenyl group, an alkynyl group, a cycloalkyl group, an aralkyl group, an aryl group, an acyl group, a silyl group, a phosphoric acid residue, a naturally

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occurring nucleoside or a synthetic nucleoside bound via a phosphodiester bond, or an oligonucleotide or polynucleotide containing the nucleoside,  $n^1$ 's or  $n^2$ 's are identical or different, and each denote an integer of 0 to 50, provided that  $n^1$ 's or  $n^2$ 's are not zero at the same time, and that not all of  $n^2$ 's are zero at the same time,  $n^3$  denotes an integer of 1 to 50, provided that when  $n^1$  and/or  $n^2$  are or is 2 or more,  $B^1$  and  $B$  need not be identical, and  $R$ 's need not be identical.